

Department of Mathematics

0222 Master of Science in Mathematics

Shift : Afternoon
 Duration : 2 years, 4 semesters, 66 credit hours
 Eligibility : B.Sc with Mathematics or equivalent qualification with at least 45% marks from any HEC recognized University

1st Semester		
Course	Course Title	Credit Hours
MTS-402	Group Theory	3
MTS-403	Complex Analysis-I	3
MTS-404	Topology-I	3
MTS-419	Advanced Calculus	3
MTS-423	Mathematical Tools	3
MTS-513	Linear Algebra	3

2nd Semester		
Course	Course Title	Credit Hours
MTS-407	Complex Analysis-II	3
MTS-408	Mathematical Statistics-I	3
MTS-411	Number Theory	3
MTS-421	Real Analysis	3
MTS-505	Topology-II	3
MTS-512	Ordinary Differential Equations	3

3rd Semester		
Course	Course Title	Credit Hours
MTS-409	Numerical Analysis-I	3
MTS-413	Mathematical Statistics-II	3
MTS-503	Functional Analysis-I	3
MTS-506	Partial Differential Equations	3
MTS-517	Rings and Fields	3

4th Semester		
Course	Course Title	Credit Hours
MTS-412	Numerical Analysis-II	3
MTS-507	Functional Analysis-II	3
MTS-515	Measure Theory/Vector & Tensor Analysis	3
MTS-516	Dynamics	3
MTS-514	Differential Geometry/ Mathematical Modeling	3

0316 MS Mathematics

Shift : Afternoon
 Duration : 2 years, 4 semesters, 30 credit hours
 Eligibility : M.Sc. (Mathematics)/ BS (Mathematics) or equivalent qualification with at least 50% marks or CGPA 2.50 / 4.00 from any HEC recognized University and qualify University test.

1st Semester		
Course	Course Title	Credit Hours
-----	Core-I	3
-----	Core-II	3
-----	Elective-I	3
-----	Elective-II	3

2nd Semester		
Course	Course Title	Credit Hours
-----	Core-III	3
-----	Elective-III	3
-----	Elective-IV	3
-----	Elective-V	3

3rd Semester		
Course	Course Title	Credit Hours
MTS-699	Research Thesis	3

4th Semester		
Course	Course Title	Credit Hours
MTS-699	Research Thesis	3